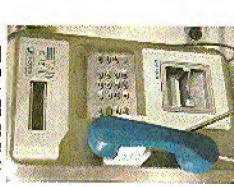
Psyphones of the Planet

FRANCE



A typical French cardphones found in Paris.

the large description of the party of the pa

Phoen by Unda Alki

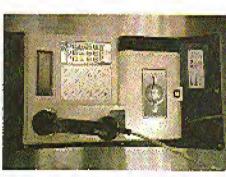
NORWAY



Norway (64.5 degrees north) and takes only This payphone was found in northern

Photo by John Lennadowski

[SRAE]



improvement urer the aid raken system.

JAPAN



This photor resides in Yokobama and is reformed to as a "green places". They use places cands in 1000. 300t. or 10,000 year denominatives.

Phorto by B.M. Rond

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A 000 Elisten to neon. Copyright Copyright

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B Rack up to Beginning

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Back up

VOLUME TWELVE, NUMBER THREE AUTUMN 1995

S4 (SS.St) in Canada)

The Hacker Quarterly

20

Waterland Whate could separt sunce what stated Secure Heater House House = http://www.oblivion.net/ Fig. Com Start 200000000

STAFF

Editor-In-Chief Emmanuel Goldstein

Layout Scott Skinner

Cover Design Helly Kaufman Spruch

Office Manager Tumpruf

The threat that contemporary electronic jutradors gove to the USN jitublic Switched Namerk) is regidly changing and a significant. As a mest of their transcency knowledge and explusional as significant introders may have a significant impact upon actional security and conergony proporatures (NS 189) taken-periodical security and conergony proporatures (NS 189) taken-periodical security and conergony proporatures (NS 189) taken-periodical security and their set proposed by communical corriers. In achieving to provided by communical corriers including the following services are provided by communical corriers including the following of soulf Consequently forces in the dominating automation and demonstrated forces in following substances of action and long train following periodical security and the communications. These traditionals should be released to potential threat to NS LEP becommunications. ** The Statement Introductions, politicised by Mational Scientify and Sc

Writers: Billsf, Blue Whale, Commander Crash, Eric Corley, Count Zero, Kevin Crow, Dr. Bolam, John Drake, Paul Estev, Mr. French, Bob Hardy, Kingpin, Knight Lightning, Kevin Mitnick, NC-20, Peter Rabbit, David Roderman, Kevin Silent Switchman, Mr. Upsetter, Voyager, Dr. Williams.

Network Operations: Max-9, Philxs Optik.

Voice Mail: Neon Samurai.

Webmaster: Bluct.

Shout Outs: Free Radio Berkeley, Michael Moore, Meje, Jerry Doyle, Thurston, Redragon, X, Y, Z.

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no more secrets

The Secret Service is postrayed in the movie Hackers as a bunch of districted, excitability field that this is an unfivir generalization. But a sent executs have led us to believe that the film district generalization. But a sent executs have led us to believe that the film district generally for enough with their ordinated upon the violated executs and their matter which appears to district executs of this agency's policies. Add to this the fear factor that a large, heavily arroad group of geogle generates and all of a sudden our idenocarie stolety as going down the same rand an many other commins have travelled.

WEATS Of The Haw believe he has been Companies removed from the airwaves of The Sector Service also did their best to have virtually lock up his image as a potential rec-Socret Service radio frequencies was used resociety. The fact that Commings laid a list of lather evidence of Commings's danger to ing 2010), and other widely available printed recise (we've primed such lists in these pages). anything also which might help to take him a with all the fervor that a possidential assessing works were seized from his home and used as threat to the government. Baoks from Commings's political beliefs were as well as Secret Service was able to probe Channings ever assessed him of using this technology to Losiopasia, pienerous publications injetedtry more wisited and asked to reseal soled would expire. People from ground the count caree of the technology in his passession, the information. By exaggenting the signifibox? Through shameful desoprion and blatand for something so driving as possession of a fed retained to by his real name, Ed Carmeinger, even suggest this, So how has the Secret et stra de sus act de préfére de partier de service de sessed bandware and software than costs to lacked away for dear six arouths with no haif Service rospaged to keep Bernie St (hogs feet used for frauditiont purposes. Noticely has imprison him without ball because he posour last issue - bow the Secret Service helped We feld you about the Bernie St. story in

Peoping distoners updated on his case. At least this extempt at media manipulation fieled.

they self dedn't mess a finger to allow buch moved away from having Rappy mently. Yet Suppress claim, the Social Sacrice quietly the phone records fines the just didn't support claim to a person be considered bastile. When at best that Committings would make such a repairation at the time, it seemed questionable direct Considering Rappa and Conunings able to find out, they won't be able to see up justify holding Outnoings without hail. He were enforceded in a particle hardforthrough and each "If I get out of here, are one will be attainment that the Sector Service than used to 45000 or Commanys, Indied, Rappa piso made a the Secret Service intended to use as a wigness about any political ligures every once, said that Curactings had called have from jein simple passing parameter." This from someone Containings made a continued about Chiefeet Charles Rappa. Sr., his en-landford said in a net foing a good job, but needing other than a statement for the Societ Service. "One rime Theore beand Considings say anything

had been altered and merely ometed the second diabets and crystells. Note of the speed dialect table at the convention and self the sparst secreted of 1991. Generalitys and 1 secure a to the convention some time during the late dipotate were 6.5 or 6.40 Megabonic We word and Lagracotic buy about 300 of these speed Communities through the 2000 Magazine. The arystics. These crystals were also sold by Colors and Commings separately purchased sored by the 2000 Magazine. This Cummings Paraghanta Hard in New York City, Spanvest called the "Hope Concention", held guide Convention in New York City. This personnies had been present at last year's HOPE conferwas able to get to testify against Cumpungs agreement to self speed digites at a Blackers code where he gave a sectional on backglowing. various projects with Contenings, and who was Paul Bergsman, who had been involved in Thread one year ego, we entered into a verbal The only other person the Secret Service

> loand him say anything that could be interspoke about his disserbifuction with any politnever knew Computings to be interested in the astended the 260% computer hacker claim... and talked to him on his collabor phone. I present or a formal to unyone. ical rigues or the US Cosembon, Lucker his political concerns of philosophy. He never past or present. Cummings never spake about US Secret Service or any polarized figures. backing thre computers, though I know he Caraterings are or said anything to my about the cards to be stolen or coentrated... him charge itents before. I never knew say of is cends in this presentation. I down on a field secuse or have illegal, stolen or courserfeir credcarrien... I have never known Cummings to understood that he had an account with a local of his own and I saw him use it several times cleanag. Concadings did have a collular phenocollular relephone or use his compact for dialers. Therry defending evidence, sericit? R not provide written or test distructions on ordered them from the distributor... We did gets botten. "I never saw Cammings clone a were any crystals installed into the sound how to convert the chalter to a red box, nor of 5 tauch tone stars, which is the may we f

clear that this is an agency eve of control the Social Service has drawn a great deal of them. But by soting against bits in this say, argume who values free speech in this country. which threatens to burt not only backers but attention to their practices, it is becoming It's a well known that that undernover agents Contrainings bitneed inspellance become a larget. needing and sharing them with the media. ers. And by showing these pictures at a 2500 explain why they've tried so hard to pain this Service mose than anything and which could really sectors to have pissed off the Secret it? The answer may be in the one thing which case diagreed on for so contained why has the ear I find a critic to accuse Cummings of and have thansing their own tactors used against Search Service agents on the invalued for hackperson's life. Currentings and pieruses of Secret Service detacts so much adention to has ever been linked to a crime, why has this electronic devices and books, more of which if the exidence consists of nathing other than If the government's two lead wineses

> Fraction Foundation, the American Chill words, "was forced to make a deal with the we have been getting the world out to show. Social Responsibility or the Electronic based thand a sucd tion the bleetons when this legislation was being possed? We Where were all of the "civil blacker" groups application to obtain an access device" detail." He pleaded guilty to possession of their its and regarfully, their elerge on this The its a case that certainly should have raised Passey Information Center on this case and lelephone system can have be sent as prison. even interested to computer aschang or the earlinets runt for all of its, virtually paymen years in prison for each charge. This is a very guilly under this section and subject to ren artyonal selling information repaiding or an releconstructions services... [as well as for altering or modifying telecommunications ning received on, hardware or software used of telegogicinenications services, etc., a seadmedidied or a relied to column impurhed and use leterarinarications instrument that has been legislation last October, mere possession is U.S.C. Section 1029), which smook infreugh lent chancer. Under the current law (Title 18 technology which could be used in a faculty Liberties Union, Computer Professionals for instruments to obtain anauthorized excess to egial to fraudation use. "Wheever, knowingly and with intent to defication possesses a On September 215, Chromaings, in his

a long prison term. By pleasing guidy under jury to believe this and again, he would face Service could probably get a non-recipital and which people all over the world also pos-California. Their existence? Telephone mens alted is known as a Zudka Pica, Commings can words, a thick which he had nothing to do with were disk in Cummings' passession - in other bers within showed up on a commercial softto averse him of earliest priorse figure in The government also expressed its intention under it and sentenced to a long prison term. waying, he would have been fixing guidy ly had no choice. Even though the law is wased. Chambings realized that the Soviet Outputings pleaded guilty because he wall-

marky is equivalent to complicity

(continued on page 18)

January 1995

STEALTH TROJANS

by Commander Crash

ing. If is necessary to use "Steath?" disk 1/0 ender to prevent such a thing from happenof these cases is disk I/O that seemed susremark. What is usually detected in both derected. Either your trojent's activities are in its aroles. There are many things which pictous or shouldn't lowe been exercing. In exception error in a protected mode each caught by an AV program, or it makes an could have caused your logion to have been er enstronement faut stops your trojen dead aiways another antivisus programs or adoloup What gives? In never fails, rhose is cell back a week later and his IHSS to shift re write random junk to his haid diese. Son lamen's BBS which simply uses BBOS eails. You upload a trojan to a deserving

dealy got made avera difficult. No longer is undetected. Getting back at a latter by treat, hest adds "Protected Mode" into its I program from getting at the hand direct disk 500 passible with gloranteed invisibiloped as TSRs. These purgrants would interdidn't know. No mother how many direct ity from the user. To add to this aggressevent of anything suspicious. Things such egit any riisk 800 and alert the user in the uploading a trojan always worked. Several sector write BIOS calls at disk it would go years later artivirus programs were develsouldn't ever deject a house tries, only it reliably for most of the contractly known atentified the wins. This method worked on searching for a sequence of bytes which wately used. Most of these, however, relied it wasn't long before AV programs were victors once they were discovered, but bundreds of viruses circulating around and got's data as you pleased. Soon, there were injectifies was chough to do with your taiused and sniply calling DOS or BJOS AV progresss were for from examinatly In the only days of the XII it was easy.

was inevitable if an AV program was used release. Windows AV programs delecting Windows itself either. Soon other its everything from INT 13h3 by 1308 apps, to than method. Windows also deesn't allow moment A Windows application decent disk were released, to seemed as if detection detecting raidocurrenced calls to access the using I/O pore without first dealing with an application to directly access the disk all, so we are unable to do I/O at all using because the standard protected mode grajwithout being detected. Then Windows any virus from ever spreading under a aned very virus calliforably. It would be easy virus writers. Protected acade was considoperaring system. If an application tried to the desk, it would have to deal with the have socces to BJOS or IXOS interrupts to for an operating system designer to prevent why the future of the PC looked grim for would also be denied access. You can year roaddly anemory that didn't belong to it, it under it what they could or could not do. If grain ruthing in protected abode coard over mode was meant to be just that. No proan application wanted to write directly to would dissue to the applications running get at something it wasn't supposed to. The operating systems was the highest level, and latest generation of processors. Proceeded

self from these aggreeating AV geograms rems such as Wilhdows from stepping you also prevent protected mode operaring sys-LG. By doing this, you not pely hide your locking for suspicious disk access, but you am about to describe called "Stealth" disyour disk I/O's hidean from the entire sysfrom the computer, it is necessary to make tern. You can do this by using a technique if In order to bide your regan's activities

> even accessing the disk thing at all ! Yothing will know that your program is

as a virtual device driver. would do is track all access to ports above written as of yet. What such a program detect this, hewever, but none have been SHIDS Pretty sneaky, ent There are ways arcan? Our output to post 81F0h is asset-PRTh. aid would be restalled in Windows which AV programs could be written to as the processes sees, you just weste to porr cally transformed into an output to por-117th Bees Windows know? Nape. As Isi they are being accessed, what idea this the lower 16 bits of the address to see if NIEBh. Most cards, bowever, only lock at the cards that data is being written to prot do a strite to port SEFOt, the processor well send the signals and no the his telling all what the bell part \$100h is for! If you my to air care. Because Windows duesn't know part all you want, heartse Windows doospor \$1F0b? You can restain I write to that abound with the disk drives. What about 180h. Windows knows you are politing noticed. If an application trees any I/O to clearly disk (A) using these pasts will be are unknown to it. This was a eigenistake applications that counted of all peets which Windows knows about point (F0)-1F01; so en Bell's paret. But have does this belip us? also an undesired feature in standard desk Windows source to have no problem giving controller cards which will also be used. will take advantage of to do this. These is Takes is a executely hole on Windows we

bo detected forsings use "Steath" 1/O, so they will and previous command to the HD. floth of these and hdWair will sair for completion of the write or read a boffer to a physical sector. can use in your own peoprants lidew with program installed. It uses two northog you ed in DDS or even in Wardows with any AV using the technique in will work and older-"Steakh" disk 1/0, here is a sample togan To demonstrate a processal use of

BTF_bYF_BXY_BY Commander (Aush)

a to decid selection from Maddews s and all activious software. use of spealth disk L/C techniques This trojan horse sanonstrates the

How it works:

) continues manually. plants south. The poor process then there) and control is given to it sector 7 is loosed from disk to boot sector. If it hats 0, it then chec decrements a counter in the out of the book died to memory. It 20225:2000 (Good thing we got collecthe country hash't analysis, the error and shares the 100 dewn. If attempts to book sumply obspicy on there, effectively moving itself ACMINESS and continues from 6393;7028 to terony. The trojan contupes the drive. Any further first Compata itself into sister M, it is losses into sector 7. When the victim reboots ing a backup of the boot sector to band disk's best sector after bak encrypted heat section code to the Unid program is man, it isstalis arcalts disk for routures. When Stroke one procitical use of the and is designed to simply demon-The scalar anajor is quite simple,

Date Co.	11/07	
212612	Ĩ.	9140·:
CERNON	17/2	20 de 10 10 de 10 10 de 10 de 10 10 de 10
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WIL HAND	115	81 F3h
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POTRIKA	Ę	0115h
E031640	Equ	61 F63
		-

Antama 1995

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**		notice the new poor sorter	call inske	nov si, KRITE	How ob, 1	NOV 61 - 2	mov 32, 9	300 38, B	Too of, dx	nov sa, GF7981 sentenbate	; Signature to book	mov [31-2], EYAF PRE 131	mov [c(+i], SYTE FTR ';'	; Countier in sont (12 times)	row [di], BYTE STE CAN	Tions of a six	055 to, 188	mov ax. Darkai sectorDota	: Sensable port of the Legges	loop moonvolWextEvde	stosb	SOF SI, 14.	10000	SecryptSectby Lec		sold die OFFSET speciantols	the United Law	novidi, Offset start - Offset	Diffet Store	nevick, 974591 bootskogsagend -	. 000 sate	: losy our proposit total the	red notab	02HS41_box(Program	BOY CX. CHUCK! HOS ORGANISHING -			new dir Offichi sectoriolo		0011 2020 100	Control of the Contro	TROUGH ANTER	

Root sector program

mer by, 8

nov dx. 6

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Jed 3416 SIR [Sa]

: Territople the program

MOV OF WOR

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American 1995

Autama 1995

AVXHEVO2 D3 C52	orotox: OS aMy, HOD 8 controller fail		Jam short restisect	ing tox		Jac nextSect	cmp cl, MAXSECIS	1000	now ch, &	The rexisers	control, MAXHEANY	3	bob ax	Page CX	PSP bx	chi	COLL FIGH	push bx	position	push ax	mov si, WRITE	mov di, 268mi	mexissect:		dev ex. 0190h	acy cx; slain	3 0x = cur cylinder	Mov 58, 8	mor MAXSECTS; c)	ing of	and di. With	TOY MAXHEMIS, dr	(a)C Q:	TO ASSESS SOCIOLOGICA	į.	med 31, 8865	EQC 05, 460		: Transport of the pyster	jap asort lockup	Tockup:	out de, of
mov ax, HCDRESAD or STEATH out dx. al	00 01, 00 01 01, 642h	shr ol, o	; teams are alone, other into!	0.71	cult howeit	holik Proc Neor		THE PROPERTY OF THE PROPERTY O	; ransectors	; bx - cylinder, c) - sector, ch -	i (read	5 OF - Bullier, AL - drive, At -	- 4	; on from the bond drive	; Bodos on whites a block of data to		: Haew		Number of Each	202	Dob dx	pep ex	je short hoMoittp	cap al. 68%h	ord al, 8886	fre short helderities	crip sh., 658n	and ch. 658c	we the al	in al _a dx	now day HOSTATUS on STEATER	Newsitips		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	outplies to	Pariant Proof Negro	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 CHOLLSE TO MOUSE SE'S COLLECT	: Addts for the hard drawe one con-		; hdford	MENSECS OF (2)

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in ol. dx

BILLEW/CYBS ! out dx, al 18 "x0 A58

call maNais

move al, th

out dx. ct

out day of

movini, ci

nov dx, HXYLLEM on SIEALIH

reactions feeders:

jac short exital

move oil, each

1007

: Set up drive and head regis-

out dx, dx may dx, bx

1000

White 250 words for 1 sector jaz short writeWextSector nov dx, HOMATA on STEALTH now ox, MISSANIS on Sie4: IR mov dx, HBBCMS de SIBALER mov dx, HOSECIUMS on STEASIE now do. HOSECTOR or STEALTH jing short writelextOyte ; Moit som dots request a # of scators to xfer ; Loop till done with all sec-; Set up sector register ; "Set up the cylinder regisidestroyed by "just specify head drive to give that added effect that the data was down. The actual unster will be turned off will result in the message "HDD committee you'll be long game. All attempts to rebook out The hand drive will be wigod clean, but marchine as normal. When this hits 0, look counter in the boot sector, and boot his ony and run. It will simply decrement a the regan program is decrypted into mene-Cap representative, behalfs the machine, socior 7. When seasone, such as a Radio drive I. The original bootsector is stood in some time RC. It will copy an encrypted φορύνης κιτέπου Entere" and the hard done well to shut version of itself into the boot secretion hand high finds 住区には大型に sactarData 68 S12 EuP (2) prodNex1Byte: To install the program, simply can in on 3 0.00 1000 と何の 大学 ono 51, 81% o odd oil, 2 and fully as nov da, MODATA on STEALTH : toop tell done with all secjor short readYextSector **多**0 年 jnz short readVexCRyte in ox, dx ; Reds 256 words for 1 sector

and pl. 386 one of 1885

See and

omo si, 8940

Te readMexisector

artiteMexastectors

move of Certa

がです。(本大部文 L中文上の)

nov ax. [52]

one bit, with poor bi odo dí, 2 out dx, ax

107 C

Autoran 1995

1000

crash". If you accidentally run fair program, you must replace your been seeter ighywral sector (i) beface you rebout 10 times, or you're in totable. The finaller ratis be run trader IXOS (you can make a IXOS boot disk to bring with you to do target) but it will week with any OS that happens to be running ... UNIX, OS/2, etc.

a Windows grogram that rices anything like wall not neemally do anything like that, and system and alert the user. A DOS program program that sources for anything like thought notedy would try direct disk 140. to it at all I guess AV software writers *OUT 19th, all in the .EXE files on your disk connotter directly, but there is reating to do undetected disk 190 Meer AV pro-All that would have to be done is to write a seem to be shall of poling around with the grams rely on capturing the for 18h or the I/O instruccions is not gooded or restancely Forts aren't even looked at. Most people (X)S interrupt vector to detect disk access. One thing to note, adding 8000b to disk

> that should seven be run. I guess it was too complicated for there to do

Mayo phus, and be careful with this info: can leave a message in my 2600 marlinox and would like some suggestions in adding "Steekle" detection to your software, you whick for an unlivinus software company. another way we can give lease descreage urticle as a warraing, and add vietection for would be in big trouble. I hape you a good riting, steing as how undetectable lancis who cause us some payback" if you feelly means, in the meantime, here's wakes up and learns what protocold mode this in your programs. I also topo Microslus analysis programmers out these take this today? As far as I am aware of, no. And it's very difficult to detect, and us PC users If workens were to write a mucating stealth allyers use such techniques in viruses folings one can do with "Stratth" 130, Dogs virus that used steatth disk 500, it would be such accesses are with today's AV software. BYE_RYE_RBS is just one of the many



THEN SEND HS SOMETHING LIKE ---->

RENEMBER TO KEEP IN TOUCH WITH US TO KEEP TOUR MEEDING LISTING IN THE MAGAZINE.

MIDDLE ISLAND NY 11953

2600 Magazine



Automa 1995

SSEINGRADO CHALLITES

"Medicinal form the force is preferring pay."

....five time stary of thy experiences as a paid backer for the nothery.

Calonel I knew during my years with the U.S. there yet. One such individual was a futivers, unviews to be exclude but who aren't Souther, rater third group: new, tager computer but we're a smaller group. There is no even everyday blo, like their VCB's, like example suidenstand the technology they have to use in Some of us from far technological pays and roys. they don't want to be Most people are happy to Make people area's technical wishes, and

best deafuell. Colonels to say the bloop of age, no and had the beam to tell the pay to gain John Coloquia See trying to help them, Bender, he was a Colonali that way, As Iraig as Iw didn't dispary real duraally helpod sometimes a didn't quite work out whatever struck his faincy. Simmonines he accudomain porgrams, remigation their field differs, their everpreus. He would give them public went from affice to enforce trying to help perduties laid already local assigned to others. He ple out, while felling his time by playing with then was just months easy. All his official 2000 had two much rippe on his bands. 21th 120be lar free in he was friendly and well-liked, file Book get on where, no one baled the pays

weren't about to learn anything new outpet experience with it. Being sechnophebio, they dandered keypresses to march his favorite soon! Were no longer valid. The Colonel had stankned than word processor. No one the had any processor, assembly everyone offic knew and to arginate; all their accusorated keyposses Or do (0508) by is a leavey but no one leaves how sameeting had to be done. Everyone had work Moon it. That was the last straw Colonel or no. staking their paratisaires, or even telling thems by nassigning all their leadion keys... without One day the College Intelliged is compare our

the Colonel had done. They just wanted their Posidoni carbie, to have me gaidly codo veren At first the poor teers just called me, their

> (and very ricked olf) Sergeam, through, had me wented passwerd protection too. Until then the parblens fram within our own ranks, thought Inna then, no one worried. We didn't enticipate there, on a guarded military base, to get into have preswords. Since you had to be physically standadore, per remodeed exceptions didn't When he dudn't get in trouble, everyone else enary and he'd get in trouble. Troug were by any" him anyonere. Everyone hold has be way specifically to keep certain people from "beiginstall a passwood prayrum on his computer,

these were perstachnical people, who resisted but it dain't have to be. It just had to keep here learning paything new est people house. Remember, though that protection, în waac'i super scriçus protectant. Studdenly, nearly compacts had pressured

by the esers diameelves, not some super birth themselves our of their own compaters! Those forbreak compares percrased codes. were simple, obvious passwords, Ico, made up threaden their passwerds. Yes, they had looked seem to techies, within two weeks people had As strange and foreign as the idea may

out where the persword program was hidden in their corn password was Unhaligable competer codes. All these just to tell them what then computer's hand glisk drive, and read sois stronge problems, 100, but they one rook the plob compute problems, since I was the official tasked I had to break into their compliters, find technical saluziones idente. Il volscons pre-I was used no being called in to fix ether peo-

ble to automate the breaking-in process, which it off as someone's hangaver. The second time. potens had enough similarities to make it possiered at another fluke. Two patterns became an option but I was still in densityand crossid-I was snoting to reconsider general stupicity as weren't going to been. Tany that all their over-658 ren as fêtre sient oa. One, that the usons I had been doing by band. The first rick at happened I meterally woods

compaters to work like they used to. One base if I just was to be see if I could do it. I told on one tunity and backed up a bacter schuron. Mostly, lunch break ---- the testigest), I rock the opporleft the above while they went on an extended One aftermore (when the rest of my office

> for doing this, since I defin't have any seet of up a program, testing it on no computer has permission to do it. So, quietig, secretly, hencle Besides, I wasci't size I wesido'r ger in rowble shoot your mouth of Fand be emparrassed least? about it, in case I couldn't make it work. Why I needed at I had a super-attentive audience.

and showed my linear. Cheechergot execute inipaper. I covered my useks, attanked them, left, screen, and works it down by hand on scretch company area, not even gothing up or asking be had the right sense of parmer for this? their primer. Smart assist library all along that program, it would past out the passwerd tracks tial shock, he told me that if at word a "med" ed cracking reuting, saw the passward on the why I wassest to use it? I did my little actionist-Incredible - Gey waved the tare their private that effice, askieg to use their computer. dellings) to crack. He chase one, and I went to pater for my test, and that he know would be of human in ail this, it asked less to pick a contweble, who I knew would approximate my scoot careful, through, I trusted one coworker, another computer. I had a wikele healthing to puck from: Evented a real challenge if webled to be extra Mexit, I needed to test it an semantic else to

we were ahead, though, desappointment of airandly parent's contput, but could show it thave difthen added a few toors just it was a happy of the phone password. We both agreed to quit while would usek my propont into displaying a grand, I wanted to show him how my conspiter devised, to potent my computer four my progird to show him the countermeasures I heat ego d suppointed to hear that file gott belone to are triend was starting to warry about all this. I instead of heing areasly improved and amusers from ways. One was for normal deal leavy) stakes on the again. The new version could not for hander passwords. I guess I had mentions in passwirts, and two sero computer-only order I were back to my office, added that feature.

each to fer me my fit Normally, no one can't computer going. The Colonel houself was there place was full of big state, and everyone's working on a He saw me come in, and stopped stressing out, trying to get this or a proportion No big dist; I was prepared. Not taking at low weak, I ger a call. Another forgotten password what I did to the things. This time, when I base I had a sonse of burner's headed foven there. Give! With I snived, the seriously. I graphed my enaching disk and One merming, just minutes after I survey as

office to explain af this and go back to my general tests, wordstang if ask where i got this disk, No one asks is leave computer going again, buping no one mines to think. 'And I've only been to work for littless. now. "Tim ist deep abable now, der sure." I out of the password doceo't lack so ferray right The injoke prompt asking no if I want a point in front of everybody, and make the programs do get out my password bosting diskette, insert of The people of get called into some big shot's minutes!" I by to sat panchalars as I get the its thing. Seconds two, thous's the password I'm silently cursing any luck. I reluctantly

thinking about how many hig make I almost a genre? No problems there, culter?" Talk about the crysics you west! "Pass!" Keep the program of the pogram for basself. "Superfoliosel all or Tossems that the Colone has worken copy when they fail to show up, it said fistening above looking around for the military cape! Slowly, had to break into lattle enest or aranching relation pechably shaking a latterly sow. how what the Colonel is saying; I as too body unto the tightway, At first I panie, I don't really shows up, right at my deale, and waves mount He comes to spe. The Colonel himself

thrifted, but I was too safe and happy to care even proud in a strange sort of way, to have any when I have done, I polared quote 8 bit I was blo, and that the powers that be accorded to like Colonelland been brapping to some of his hightime to time it had the impression that the The other computer users vectorit esacilly seems and the Colonel level has new too, not gragiam all bus classified as a perconapat for him. Once I found out that I want't in tranthat, except for the fearly good states I got how placed friends about this guy he had working Life went on poetly much stormally after

real password for him. Lucky for the two two more a penaltar? I feared over, quickly typing in the password is: "Try Harder, asshold!" De you went aus displaying the mossego. This computer's agara" I washed up quietly and prefed over his my exception and then forgot about. Purio tand reexpotence the counter-measures I had pot on storing as my compater cask. Stableady, back from lunch one day, and see the Calonel shoulder. Sure enough, my companers servers Everycking was pastly secret until I came

Page 15

Autumn 1995

by The Reach

Thought you of the 2600 achies, I thought, "Big. Lomma sell you. smock in my life externing thing. But the short ded it. the "livek yee" shirt. I have never been harses the Wall, I think I would have lead a benezing with that that pays something like thick you are a " this shad to a cost. I'll want to footium, better than a At one of the Washington DC 1600 meetings.

my friends. We all got kinked out of the mate his "decasia". He rold eventes gapral to take me to custamassed and irresedutely have alsen out of so I started to threw a rantene. The good got were group to poil and sorears. The looked digitates. After a white. I mad been ji' be didn't let nie 50. I to call my parents, it initiation. I wasn't going to relidevorte his "guarding demant", and he said he had him anything stree I had done nothing wrong. the sales with him. Held bearing, So he teck me goth 1.) He checked the pockets and he still wanted knew Laboutdon't love done that, it inshowed my come handers. I even told him to observed the 1 0x5 firm not cloting anything to Paris: suggest. The you have to door with open I wait, "Hop why did formly by the arm, and me unliked off. So we were provide to emphasize their exchangement (Valve) redding from I was design additing but trying on ownwith him. I wanged wants with him for public, ally doing something illegal and I had to come guard pointed to my shirt and held me I was been later, a greated came up to me, and send, "Song, but rest to the one by facility was on its shart train ly hourd, so I started playing with a purphone agive so take over five miscose. By this read, I was near make a phone call. So we all support by a payhave so makely) Well, one of my frends had so ber coollen own the phone, and so the call started call. A few minotes leter, she stanted fighting with friends were they know the mythm we business phone, and we waited while the made the phone ing a feet name, highing, buyong stall, soldiered my a mali. I was with some friench. We wone all how-Two days after the meeting, I wore the streets

White Appropries

becelen a reading a sportward engages. I final- 1 you will some, you lost send. Then I had anyther bad expensed at the still

basis didn't believe the out of the hanksome. ment to another stop whose my family was. The embarrassed, it walked out of the beckstore, and stone was storing of both of us, and I was really was lookate. By this time, samplere in the book THY SEES, and that I should conday again belong it Land stiern, adding the I was going to guite belt for gross name, for size stanted spacing highe scripthis wanter, I never got her name, but to that have ed to lowing bright one I couldn't seem to how started to yell at me. I walk of away, but shy start Cason lies sulement got per marily rand, and sho longhaste relations in the gift it was need a realacting brooklened not said. "How coice I just their, lipped with topies aleane. Hy this tony, i was using laser on, remanationing the most incidence. I skirt about hackers. See than asked me of I kaga-Even searching like Hope, or Giorde at wedge to if don't know anything about hacking." For some anythese above backing. Well, at this point, I won't by put down the magazine, so I could go to the Buttery Scotts section. On the way to the Buttery sold her, yeah. I know alte of tooking to general, od to act details, and couldn't be encoulded for anythe shirt was for I sold for the it was just a sidy survivors a woman name up to the and solvey when really president, and started to ask maintenance queshat as much as John Q. Public did. She dien gro-

Fpinger Three

Providence for the spirit and said thick you kind, the said yes. I then gove him the email peked him of he had an interact address of some address of 2000, and told him to the and get one The guy yave up, and give me a point surfaces. and lines, bloney weed get the sine of my back. that he fixed out as take to still out newbore", and tiones at the 2000 recessing. The technique held our money to previous the 2000 magnetic of sensefaircre he positioned one. I haid this start year can essential in entire to a fact that we have the configuration of the conf he theo asked one of he could buy the one I was teenager of the or 17 asked not about the shirt, and One incident that each the shad was lungly A

being kicked and of the one puter poem. Oh well-Shirt, but I can I servin to wrap of the spinor, without but of to great conseque we. I salt against among the The bad a couple too is mosked which the solid.

ALLERNS AD

tion and carde needed to paid off a key capprovided some indepesting multi-platform corrided "More Key Capturing" the author buck for the Maximore. iy. Included here is the necessary explanathey are the must flaged in terms of sectors troing scheme for the Maciotesh... after all. insight, but didn't mention a quick key cup In the winter 1994-95 issue's activity

events, but the Mag Roosa't give us a nice In a Macintosh, everything is based on

file. This is written to be complice with keys first (without making any) we autosystem extension. This is not my made, by can goly by itanic or 65k assembly fairwrite a pGNE filter This, unferrunacely, THE WAY THINK CLAP OF A size should be built as a filler, the rest is just writing the obsercators guage. The associatefuded is the gars of the to deal with them. So, it, order to get the key downly events to the way that we plan powerful set of routines to deal with the

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ARGUME 1995

MONEY (70,41 inight formedinight (Ar) A1,-(Ar) regain (A7) regain (A7)	restore old A1 is mydSN busy? yes, so boil mork mydSNE busy push short necently push short necent pointer of the real work restore event recond pointer
2000.1 2000.1	(A/)+,A1	restore event record points pos pro-result: power-result in De
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(continued from page 5)

sentencing pedicition will call for so more Older words, he will be created than what Connuings has already served. In the rest less months. It is also likely that the challenge the constitutionality of the law over

take effect, we are all in serious danger velling to do this. Until some sweeping changes won't have much deficitly finding a judge himshor up tex six investes with no hell, they er hots if they so charged And as has been so to treat the suspect as a regreest and lock apily demonstrated by this case, if they choose and well see a green light to linck up anyone in The possession will integred this as a victory possession of simple electronic and/or comput Of course, there is a big down side to this.

ibility it case had by its actions over the last five months. (At press time, new mids inyalty-The Secret Service has lost whatever end -Secret Service policing

> the are to succive as a democratic society, we Service as a warehoog ever American efficies. ment in the hacker community who, accordcalcing. The Serve Service planted an erior of nothing more than selling electronic model rotation of a principly resolutionable the Source to exemple eriones) It is becoming clear that it ride to sources, repeatedly mind to get backers devices that had been purchased strough a on People, at Seast one of whom was accused

tien, email kmirnisk@2000.cepu to Mittick and to receive updated informatwith additional equals in California. To write allibragh it is proceed at he well be charged was aharged with. Under this agreement. and guidity in July 10 and count pet of the 25 ha we have been following. Keein Minnest pleast Bernie S. case, send viewal to bernies@ Matrick well only have to some eight months. 2600 abro. To the other major hanker case that To receive updated information on the

JUST SAT NO

a new and coproved gold box, without wires, and without nose. hox, which coally isn't a box at all, it's like The NO lieu is a simple-type places.

to your boase (like mane, 50 feet away) one hine in year leads; also dy. And it works made easy if you only have This works hast when there is a trunk close extra lines, and trook it to vorrecore plac's. where the phone company set if up for your What the NO-Box does is take the wises

You'll need.

Allipator Ches (3) THE CATROL

that contains the incoming telear wines. Go to the box inside/proxide your house

ones eer heaked into anything, just either dangeling or separated. You'ld see a cress of wires. Look for

down or something.) color. (The colors won't be solid so write it booked into anything. Koncentro their Thy to find the two closes wises and

Co 20 (2011 FICE) 103.

or ANAC marker). Find your phone terminals (use an ANI

either a thick wire or a whole mass of tag-Find a close target, do an ANI or ANAC. Near year terrationis there should be

gled wires. Leak for the two colors you

found in your bouse.

Hook up all gator clips to both wares. Out those two wares in your man't box

more probability that ther's the ring wire (i.e., prange, gellow, etc.) the wice is, the year target's terroreal. Sisably sho more red Block up the wire tend now physical

back up. Go hack to your refee box and open it

Counted the wites from before to the

cainals that means either you have an older lines and both are full, or you have one support six lines, as de most. telephone system that can only support two your telephone. If you don't have extra termany phone lines as it is. My house can

gleatherly resistant roofs if you don't want a (%p). Wear rubber gloves or at least use DON'T STOCK there somewhere. Hook that up to the left voltage. There should be a pane white were We area't dead. We are going to need

ben is estimated, you now have a fixe phone and hooked them up eight to your target sameans might pick up the phone. tine in your house. But remember - doe't ring filpholisge wires correctly in Jose box. use it during the day or whenever you think was that you are usery a larger whose runtand that in the trunk, you get the right wines Now assuming that you heeked up the

options To escribe phone yourself, you have two

whatever modular outlet you want bank the wiltige wire. and phone sine, just their the wires and in that up to the yellow/black rendicals with a) If you have it hooked up as your sec-

on the secondary part (yellow/black) and that production matter, disconnect valuationer is hoek those wices aph) If you have four lines already, go re-

In you'll ger your own logal phone fine, but when it "lack 2" you'll get your free eac. with the red and green going out to the pers. and black coming as flow the phone line One of the ports, and switching the yellow ring a two-way splitter, cutting the wires on crake yourself a phone swatcher, just by gen-This way, when you are plugged only "back Then get either a two-line phone, or

ring and tip lines of the extra terminals in 1 sense on who you call form your "new" time That's it, Just remember to use common

Madagin 1995

COCOT Experimenter's Resource Guide

by Dastar Com

other brands of COCOIN. matern is generic enough to be applied to experimenters. Pies, enough of the inforone shouldn't pose a peablem for would be try are intellicall psyphones and finding anation and operation. A large number of article deals specifically with their codingthe COCOT's at operation around the counbeen with Intelligati bound psychones, this experience with COCOTs to this point has and what goes into it. Since most of any the business side of owning and operating which are looked inside. In this article, I COCCOTY is rarely asked asymmet, interest requirements as well as revenue oxidection payphones: the operational resistenance intend to explain not only the raternal hardtheir protocol and discovering the secrets hankers the fantasy of eventually breaking sometimes until a carrier and afford many the curious. When you call them they phonos and thus gurner more aftention from them. They are different from normal paywade and operation of a COCOT, but also fact that so neigh is still disknown about in COCOEs has communed high this to the Although the question "What is a

Remare the COCOT

ordered bire to remody the saturation. He owner and bitched to big about this and charging horrersious rates). A long time checked to see if the \$1.50 charge was phones across the street to use, I have samply efforce the location of alternate \$1.50 per 950 cattl I called the phench use I came across a phone which charged one at all coers (cost is the keyword here, about COCOT's dest you my to avoid using because they have a notorious reputation of depetally by new you know enough

> find a COCOT that isn't complying to the plain. COCOT owners can feet belty fines FCC regulations, call the FCC and weresince been removed. Good riddened. If you Heav and 950 agrabers. require (OCOTE to allow from access to for non-nearphanes. FCC regularious 150%

maintenance and servicing. \$1,000 or higher and requires constant high. Each psychone can cost around users, their equipment costs are extremely appearing in 2660 from disgranded COCOT imposed on shem and the stiff immpetition. phones due to the tighter regulations fur there to turn a pount operating paygreedy and don't care what they change, but Also, as evidenced by the many letters budget that the big RBOCs have, its harder expenses. COCOT owners don't have the any business, the enajor reason is operating those operators are a small minority. As with much partiage operations who are just plant There are a few massers. Of course there are will charge the maximum of what FCC reg-"villations affirm, Wiley are they such a rip-off" standard Bell rates as the CCXIOT owners COCOT rates are usually higher than

ing cool Calls. the surcharges they levy on collect and call-FCC tariffs. They make the real pioney in make next to no profit on poin calls due to Left it be known that payphone operators

Trickery and Deception

dropped, it hadn't been. That phone has it mechanisms. Their main defence agreest Intelligable have very advanced anti-traud expressed to every trick in the book intellically engineers have probably been it they were field rested in prisons, so the case, however, with Intelligible, Rugger has their parestricted dial cond This is not the COCOUR can be fooled into returning you As revealed in previous articles, some

> brief., about 30 milliseconds) cuts off the handset (detection time is very (where it shouldn't be detected) the places outlight. As soon as dialtone is detected surrendering their dialtone as by detecting the

CDCOTs these days are using COPT lines to profess against the well-known mick detection options included to their software tung up Intellical payphones have wink O equipment that the remote and has the line loop current which signals the level disconnect. A wink is a momentary deep to do not rotum a "wink" signal when they as thecused later) is because \$00 nambers (or at least used to as more and more concernated dualtane. The reason this works called party to hear up and then, voils. diations: call an 800 number, wait for the number trick to acquire an unrestricted By now everyone knows about the 800

cial "na-wick" number. calling in from an exchange that is not sernumber to work as desired, you must be resides in the 00XX or 99XX range of your vised by the switch which services the spelocal prefuses. However, in bider for this of the call. A manber like the resultly times even get your quarren back at the end unrestricted destroics, all for a quarter CODOS and then call anywhere using the marys, as you can disk this number from a Depending on the COCOT year'll somereturns a distinge. If you can locate our of This is very valuable for COCOT scamthat hangs up but does not writin a wink. these then what you have found so a number ber which, when called amreedsheely patient, som year local presides for a race-There is snother way though. If you're

calling from NPANXX fills; 567 jac. you would be recembed a distance without a called it from MINNXX (415) 556 which is located in NPANXX (415) 567 which is secwink signal. It would not work if you were serviced by switch SNFCCATACGO then vices by switch SNPCCATECOU and you tion example, if the "pro-wink" runder is

2009 NAC 000 20°F E Z Glassary of accessors Alicensic Operator Identification Automatic Namber -Antiouncerowns Cipsuit Automatic Number

LATA 684 S Customer diamed Colo Local Access Transport More Coin Operated Pay 記得に続き、 Extended Message Teluphone) Talso known as COPT. Central Office Operated Telephone Service

- 1880 C 700 灵 Regard Bell Operating Campacy ding kical deli truffa. responsible for him: Local Exchange Carrier Office . Revenue Accounting CONTRACT. Process Swire Pod 1 . The phone easilyably

Other sources of informations;

PHONE+ Magazine

Sociated N. A.Z. 85263-5100

rates: \$40.50 per year for 13 issues (\$76.00 Canada, \$105.00 (medge) while COOPT, purpers, Subscription committed stights service providers, expertelecommination comes affecting oil gine Zugeser agesten, Angleich

Public Cammunications Magazine Houseon, 13, 77042 3723 Brian Pirk A

1906-528 (868) Per increase semane problems. For subscription inforministy dealing with referencementalities syden Registro equation during

Andrews 1995

mumber is focated in. outside of the LATA which the "ne-wink" being serviced by the same switch as the "no-wink" rumber) or if you were calling

code and presix tables (programmed by the distant it is classical against internal area assert the required servount carened, the postatione prompts the user to databases). If enemy has not yet been call are computed (again from internal rate payphone operator) and the rates for the are buffored. Before the number is actually real draftone is cut off and the draiged digets soon as you enter the first digit though, the synthesized, it's the actual line dialione. As these free versions proximately applicable recommendations and applicable properties. the case of Intelligials), the dialtone year Constany to popular belief (at least in

rables to determine what type of oall you are credit cands). The phone uses its internal to VISA and MasterCards (or, those phores from ATME, Sprint, and MCI calling cards tables (NPANIX tables), plus rate and sucother interesting circuits (tene decoders, forcomputers, including ignorates of 64K of late bow much that call will cost. making (Local, inted.ATA, etc.) and extenwhich are configured to accept continence. charge tables covering rates for anything exists extensive local area gode and prefix quancy detection, etc.). Invalle the psyphone. RAMSROM, speech synthesizers, 300 or photosili for nething. COCOTs are basically 1200 back moderns, and a whole slew of -Sad testilipate, pagging unau vigory

phone number from a COCCIT you know that it uspally thearted onless the number exists in a ANAC to been the COCOT's phare runnbar is nal databases is rejected As many of you may proby amound inside its detabase. Thus, any munattendy known any attempt to dial the food ber dialective is not valid according to the intersolid in your may took because it has them all word files it. It knows which outlings the If you've ever tried to that a convexident

> wild profix (unparament. This can be easily overcome by simply dialog "10" for a local operis usually the exception rather than the norm know what manages you are earling from but this operator service center which will not thely you'll be routed to a legal Bell giversor Flowers, dialing zero does not about spanning ly complies and reads back the manber. after and requesting the number of the gaspisone Sometimes you are connected to a substantial Since it is a public psychoon, the speciator study

the phone to a costain operator's liking. are settled digitized human voices stored in and areaben or say a name for collect calls. de certain things, such as enter a calling the photo's memory, ideally to customize after you make a call on Intelligation lines you hear, such as the accoyong "Thank you" recented pressages that peeple the called to etable barriers. Speech feles are prespeach files steny) within their night imper-Speech files are not the synthesized voices Most COCOTs have at least a couple of

ghone, with 48 characters available for each aton, an alternato leng distance service, or a various fong dialance companies in custoid est as a stand-allege unit onto interface with rule. The payphone can be programmed to outguise rules can be programmed for each reproduce, the bucklealls a total of airc calling eard number for verification, weir distinction funities and calling card, then "Outpulse Rules") to place a call depending validation systems in order to place calls. "spinsh" (forward) the caller to a line operis valid as not, either place the call or for a reply and, based on whether the cord titel and to a validation service, such the can be programmed to except the caller's on what the caller ergers. For example, if form a specific set of liberactions feetiled COCOTS can be pregratemed to per-

use your calling and isn't there just to example, the beng tors you lost when you sequence the phone will follow bused on the agonts received over the line. For The polyative roles are basically a

> listen for the borgs and then send the cullgrammed to diel the AT&1 series member, place a call using AT&T, it can be promated call processing. If a phone needs to ing cord and digled nomber. sound quaint. Its sole purgose is literauler-

response from the phone upon contracting to ir with your computer. ides spent trying to etake some kind of tually dissipated however after many minment that rushed through your blend evenwere given a 300 band earlier. The exerc-Title and pressed the right angels made you DTMF eighs. If you experimenced around a compatented voice and then play four COCOT which will say "Thank you" in a arises. By now most of you have called a phone's program and data when such a need described alsae) but also to reliable the totals during money collection (as about Scutzoidat ang Aprientied Assessant band corner carright. The face is, all (lotellically) while same give a 500 to 1200. nessages and series of touch cones eventy thangs. Some COCOTs play odd one time of enother and thecovered offer-COCOTs are expossible removely. This is Many people have called a COCOT at

going to be able to hack your way into a COCOL Try as you might, you're probably never

or CSME and books and acts besidely like a a PC. It can be configured for either COM? continuanceations each four plays directly into phone locally we derect serial link and an illicall into the host system to report special back to accompagnite a physic line, a mice modern. It has two RJTT phone plugs in the pin mate serial connector to program a Intelligati INET board which is a preprietary entie. It is virtually useless without the his payellours, file and keep track of ievgram which allows the owner re-maintain board. The INICE software is a database proall requires the INET software and hardware Accessing intelligal payphones sirst of

external speaker port. Actually gaining rate automatically by the iNET software. three" a psychone is all transparent to the gaiggain" season alteration of the exempt user, as the psyphoto is dialed and lagged phone's serial number, which is used as a solves to a psychone also requires the pay-

have observed the following DTMF handeations session. Tailough experimentation if tier from the phone to begin the communiphone's foreware revision level. The INET the INEE board and used to determine the suppresent its own to order to excite themboard will then respond with a digit when year call an Intelligal Lare decoded by The four leach rank digits you hear

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sends AB65. INET sends % plants white Example: INET dials phase, phose

it sends a data handshake consesting of the piter the iNET software logs into the phone any required date transfers. phone's serial purpoper and their executes At this point I can only speculate that

action has completed. the caller our timorously hears "Please wait" discugh the cargioce until the modern transcations to the bost system. On Intellically it is using the phose line for its continueis incapable of placing eargoing earls since bases as needed. During appliates the phone transient money tessis and reload their datathat phones can call in as recessary to tion on a dedicated PC 24 inpara a day so phones. The software is narroally in operanemote that and program updates to the network software package for performing All COCOTs come with some som of

Some COCOTs can be configured to

Autumn 1995

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- Set the 1914 to see for people is the levil of the size than the people is the size that the people is the size that the people is the size of the people is the size of the s

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- fail series area indicator of a constituto fails for any reason, the portion of the computer of the computer and indicators for the constitution of the conflict of the confli
- M. Journach the phone to wood day refrection weeks information above the coulds and colored.
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conditions such as lead-ward crown for missing hardware (i.e., missing hardwar, missing hardwar, missing hardwar, missing hardwar, missing hardwar, missing hardwar, missing varieties to report in when someone search to report in when someone search special conditions whereby upleading a message using its voice synthesizer. For example, if it calls the special conditions number and receives a carrier it will attempt to connect to the counter system and then upload its error message. Otherwise, it will detect a human answering the call.

Local Collection and Service Access

can be accessed totally from the keypad to technique through a series of wide order to perform different features, such as prompts (or, in the case of LCD equipped code. The phone will then take the service by picking up the hardset and pressing the tasks. On fatalticalist this is accomplished perform simple service and collection ally changed as recommended by lateiterall. clearing the totals. The default access codes collecting the money to the phone and phones, prompts on the LCD display) in proprogrammed number. Usually these pressing the "" and then a reaction 0-9 (or will that out and report sa transferrized as the book is opened, the service code must other unlooking the upper housing. As soon key. Service access can acity be activated severely Unifortunately, the service code is so a little heaking will probably be in order #2001 for service. Heapter, these are usufor intellicalls are #9999 for collection and "#" key followed by a four-digit eccess 00299) on some COCOES will speed dista from the COCOT keypad is speed-dial access. Amother feature sometimes present be entered at the keypad or else the phone useless without the phone's upper housing If the signaults are still there, you luckest out Some payphones, Intelligable included

> numbers connect you to the psychone operator's husinoss effice or repair numbers. I gave come somes and strange COCOT that speed-disited a few number. Go figure:

Billing and Validation

Aside from corn revenues, payphone operators may also collect revenues from the policel and calling carrieral placed from their phones. This is accomplished by agriculting the call records generated by the payphones and sending them off to the phone company for collection.

(many or you may have seen these strange companies (LECs) around the equality (some examples being OAN, Resurgers. inghouses opane in. These clearinghouses This is where billing and collection clearexamplearies group up on your phone hill untexagreements with most of the telephone Integrated, and ZPDI) have direct billing the LECs to bill and collect these revenues have enough withins to deal directly with records are sem to the clearing/houses in the pectedly at one time or anothers. The call takes a percentage for its billing and collecall the information required for the clear-Interface) format. Facts call record contains BallCore BMI (Extended Message small percentage for its billing and collecto the clearinghouse, which in tion takes a tion services, or forwards the balance back loors the charge from the customer and on the customer's bill. After the 180 outcharge to the peoper LEC to then be placed inghouse to route that particular phone tion services and then forwards the remaining balance to the purphene operator Most private psyphone operators do not

Each north the clearinghouses and out a test of all the LECs they have direct billing agreements with in the form of NPANXX dance codes and profines). This is pricinal to as ONNET, those profixes which the clearingbouse cannot full to restricted to as OFFNET) are simply restricted to calling on the payphones to

Intelligati Outpride Relie (2011)

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- (A) Individual to periode the distribution of the content of th
- 22 Increases the possiblene to compute the Highlight Carrier access make. The strength file the second to the sec
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Sample Dag also Rule:

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Page 24

Antimor 1995

2600 Magazini

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is dialed or on a post validation basis. and the validation service each time a callcalling card numbers or third-party/collect similar in the falling numbers fi.e., cancelled with using an invalid calling and for an realized that it is time prosable to get away penied of time (key a week) and then valiwhereby numbers are collected for a certain by-call besis whereby the payabone calls gapty/collect calls) tather on a "lise". callcell numbers which do not allow fairsansociectible and feadulers charges by which are found to be neglid are restricted dated all at once as a baret. Those numbers ing eard or chird-party/collect cult runder pulgose of this service is to screen out subscribing to a validation service. The These with quick reflexes may have pirearly from feether calling from the psychonic. ing card marker you oncer is valid until it good and restricted on phones that are using italelitate period of time before it is discovfor two velidation. gays as more guyphone operators are obtain discovers that the card was, in fact, insatisf. can be validated later. So it will from ally tion, the phone must assume that any callplace a call with the fake matter until it pest validation. You see, with post valida-This is becoming more and associate these Psychone operators can further reduce

Typical "Une "Tableshot Patrices

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- celling conditionables

 3. Physioner dials and to validation setvice diatellically phones can non
 Intellically EICS service as not as
- 3. Senting amounts, payahane sendicito ANI and tolling number

DIME based services

- Malifeliation service accesses LIDB distribute to description seator of hilling nondest.
- Vehidesboe very for then notifies plante of attention is status

Indeficial effect is own validation sysrem called VICS (or Validation Interface Computer System) VICS differs from typical validation services in that it uses modern communications to graform the validation, rather than via DTML The phone uses its actural modern to distate VICS system at 100 hour. After a connect, the phone sends all the necessary hilling information and VICS returns at appropriate reply (either valid on invalid). All this takes given in argueral 16 seconds.

Validation can be implemented by riscuss other than was live, suscential services. Some COCOT owners (less and fess these days though) may opt to sond all their collect or colling care calls though a costly alternate operator service (or AOS). This works by programming the psychotra to dial at AOS access number whenever a pation indiates either a collect or celling and oil whereby a live operator will handle the cell from there. The AOS takes at portion of the revenues of each call processed by them, which obviously duty down on the COCOT operator's profits.

from it without compensating the LECT for the payphone was using the local LEC's on. This type of welidation has been outthe phone would get a bisy signal since is what is referred to as "gray validation" to trivial by the ECC because it was deemed dial reself (with the calling card entered by bots were verified by having the psyphone feasible, payphones would sometimes use three to complete the call and earn revenue was calling the same line it was dealing out busy signal. If the celling and was great the phone person) and then leatening for a salidate calling cards. Calling card numthe list of its the feetilies. Befere live validation sendans breaths

How Numbers Are Wildored

A question one might be asking at this point is just how are these numbers withlates? Hivery LEC at the country maintains

(ez LIDR) Fach 1.EX is responsible for madeathing its own Lill's and seeping it and block the can's women. intelligence of the networks will catch on be able to scam a lew five earls, but the the very near laters. Of course, you'll sail abuse calling cardy easily, a sure will be in can be determined by the remain of desired). surpasses a prosec threshold (156) time-hold matically cannot a culture card if its usage specific to each calling card and can entedatabase also contains fiaud threshelds ages, the number of back attempts, etc. The times the card was used for how many minkeeps tabs on calding and deaps; how comy collect or rhind-party calls, and it even information specific to each billing numethat LEC Furthermore, the LIPB examins and calling eards that are evallable under current with all the valid phone numbers what is called a Line Information DataBase. ber, such as whether that customer plinws The bottom bus is, if it's not already hard to

as SNET SNET is a galoway by which willphone, semi-privare psyphone, etc. There are what kind - private psyphone, public graywhether a rounder is a psyphone (unit it so. accepts collect or third-party calls, or code tells whether or not a calling card is replies it can give regarding a billing nummajor credit card dutabases (Visa. if cand sufferneeten was a gateway to all the major RBOCT IDBs for billing number wildistion service providers can access the LHDBs is limited to smaller LHDB loaks such closed XES INVI. Access to the major inter-contected via the SST (dework (a hubs (one for each RBOC) which are all many different payphone classifications). valut de whether a certain phone sucuber ben all so the form of a three riigit code. This idealors. SMET is also set up to perform ered-Massercard, etc.). SMET has a whole slow of Currently there are seven major LEDB

Extlowing to a description of validation messages specific to Southern New England Telephone's (SNET) validation service

NNET used to be accessed discuss feleral but is new only accessible vio a dedicated X.25 dual-line explaced disorty to SNETs premises.

STATE Query Request

(0200 - Request 0210 - Respenset The character Reply Code is included which is Message Body (i.e., Account Namber, PiN, marchinis quenes to their replies (i.e., a serdur of the message (see Table A). The collectively compose a texadectrail value. sage as a request. The new foor characters or and consine mandy message identificamined in the peaket is simply for toursteunwields. Most of the information conthe billing number quested (see Table B for then alterpreted to determine the validity of the Request massage except that a three etc.) The Response message is the sume as whether data stems will follow in the igh aurubert. The Data Indicator flags Message Sequence Number is available for Commercial Credit Case offeries the for Third-Party Billing, and 35 queries, 91 for Collect Call screening, 92 Mayarge Type defines the type of indudes. which fields will be present in the resolu-When converted to binary, this value flags tion. The "DO" simply identifies this mesthe venti-colons) is referred to as the head-The first part of the message tibe plot up to date, time, mossage sequence morflet, etc.). don record-keeping purposes (such as me sample reply codesi. Transaction Type is 00 for Calling Card The Query Request Message is preffy C2

Example 1: Sample SNET Query Message

TQTE835HTU5HR2N861173455195182721348 3; ;3803516751260961763997881644433989

"DO" marks bagining of query.
"P1000" is the accessage field bit manifestable.

(combaned on page 40)

2600 Magazine

Autamen 1995

Harassment

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then maybe they can both or my backgood. What are they checking? with "I need to beat in your backpack." I shock my head and said firedly. "No." The commit newspaper safetisted on the way the security goard cache up to the and guest was refer about and then needly product to the "sign" which said COMP. without the today area goes the substanting has desired, a samed looking as their 's tinks my off. I every, of they saw the said sector language railed the pecces, page, USA reserves the right to search blad blad (blah, etc.) guar seath "Neper" This rest. I was at 100 P. SA is well ask assault ask to the sales the and save !

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Hunston, TX Pay Laver

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Dali Lawer

Authorn 1995

2600 Magazine

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Telen Brains

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agent when called from the Orange Courty region (203) region of Fee-Ball will only provide a teach busy A majority of 211-XXXX remites in the Los Angeles most of those 211 passens seem to be 500 dependent. along with other line manufacture as denic floweren basis of the second and the best of the second president the weatherper in 211, but an arather more webeloof WASTER TO CONTROLLE SPOKE WHEELT SHEET WELL

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Article Feedback

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Mr. Vendon, SY

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Andrean 1995

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2660 Magazine

Anthona 1995

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Mac Infiltration

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CONT 2669 HOPE Repercussions

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San Manga, CA

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Autumn 1995

Mutation Engine Demystified

"Prematica epitarization is the toos of oil programming evil." Donald Kenth

"Senictional programming is obe modified in structured arise." (Skinger

by Tio Mate Jones

missing obvious stealth techniques. will be more steadin-like, they are often lined under the conviction that their viril make their creations smaller and streamvirus "authors" newsdays, he attempting to The above quotes hold true for many

information (which is charged regularly), a deeryphon mechanism. from a deta erea containing decryption use self-modifying code. Rather than read tured rastrion. One way to combat that is to virus can verife the changes directly into the because the decryptors are coded at a strucognizable signature for the virus, mainly that the decryption segment becomes a recrest is scrumbled somehow. The problem is are the dooryption routines theoryelves. The tion, where the only unenergised portions ners, many wini use simple forms of proryp-To conceal themselves from AV some

difficult; as it is, getting abold of a simple vices like firty is a labor itself.) method that would make their jobs mate are understandably reluction to discuss a mutating code. (Anti-Virus professionals energybion" nather than being what it so described the MtS as using "multivry grade Some of the warning literature has are shrouded in a mystical cloud of silence. engines (most notably Dark Avenger's MrE) these creatures much harder. Mutation spawiest, thus making scanning for one of a mutation engine, which generates a different decryption segment for each virus An improvement on this theme is to use

For the mon-professional in pussuit of

knewledge, this prevents a problem. ful enough for anyone with a minimum of the rheory simple enough that I was able to assembly language skills. In fact I found tions of the MiE out those, and they are usefeeturately, there have been some descrip-"SMist") swernight write a small ambation engine (which I call

coding. After initializing, a virus using and then do all its other operations. tion routine, as well as the initial contorn energistical decryption routine and a muta-SMut would decrypt itself, mutate itself;

claugeable regieners. Though they are usethe SMot Engine FII to discussing here will is simple: there are many ways to code the focus mainly on this method) has much leaving in coding. (For simplicity, ally meant for specific functions, one still same function. Processors have inter-The principle behind a mulation engine

also be AUD X.1 or ADD X.2/DBC X or sense code like NOP (No operation), ADD organs and redundent order INC X could ADD X.10SUB X,9 or SI/B X,-1. The decryptor can also be pedded with two-YOU OR XIX et covera Other methods take advantage of syn-

article to learn the theory.) 8036 family, that's ek. You can still use this machine uses a different processor from the confidentification confine. (Note: if year

Sucial P : Similar to one used by Ceprosy-B

pd: push ba

routine

pile pash ox

186 doesn't lot you push

The SMus Engine contains only an

Let's take a look at a sample energy-

odvo registers used by

abo moview, OFFSET START ; 8-bit registers ; shart addr of code to #6820.e

(89%

zZo xor ah, Oren zł: mow ph. ¿bw] 1 Get indexed byte 20万 シル

: Put indexed byte e3: may [bx], dh

24) (no ba ; increment index

: m:\d\:60? p Pad extra hytes for

ASS one by, Deficit EMPED

3 00467 ; is the index at the end of

28: (le 1:00)

: Rostone registers p2: pap ax ; if rat, keep going

001 too th

ST481:

C Encrypted Code Unside have

ENDOD:

will make the changes directly to the code, Those are for the mararion orgine, which This musting isn't the most officient Notice the z0..x6 and p0. p3 labels.

thus we have 16 possible combinations. BX, we can also replace AH by BL or BH... by AL, CL, CH, DL, CH, If we deal use be replaced by Si or DLAH can be replaced obvious chooses are the registers. BX can method but it's the assist to mature the

than using a separate chain space, we can it using three busvalue as well, which many viril do. Rather We can also change the eneryption

ory leastion that is too structured?). abilino_Value, where Enc_Value is a mensaving it to x2+2 (rarbor than use you affect the charge directly on the orderby

from ENEXO to START instead. can change one byte at 26 to just 1,000f. about the last byte not being energyled, we severse the order decrementing by down Another thing to change would be to with the ine by. If we're and two upright or sub lox, OFFh. We can also switch the suploop method. We can change at related by it Attacher inichible part of the code is the

even changing the size of our encryption 12. TROIT generating hundreds of variations, without We've examined several possibilities for

the assembly of the following (on 1801,86) code can be easier). Note the differences in the registers (the other reathods of matering For simplicity, we'll look at mutating

and larged We've mutated the code. initial byte. "OR" in the chosen registers this way. Our mutation origine so: up the addressing mode. Most processors work used, their size (%- or 16-bits), and what bits in the code indicate whele registers are We can see some patterns here. Currants

repeate. Notice each register is expressed depending on the addressing made and to a two-bit mode. "ran" is the register. each somer stands for one bit. "Immiliteders "Exx." actually means r/m, which vanues byte formatted like so: nerturneas, where the operates are followed by a special data In the case of i86 processors, many of

Autumn 1995

7	ion's brown	own and icorn life you already don't brown	4
	ad on Just	live). You'll reed to experiment on your	Ŋ.
_	ip to Fear or	lowing roa the 8086 it may be up to fear or	\bar{S}
	a bytes fol-	expect a certain number of dual bytes fol-	94
-	made finar) well	ing on the addressing mode	21
0	les, depend-	(no pen intended). Some opcodes, depend-	= = = = = = = = = = = = = = = = = = = =
14	complicated	Of coarse it's a bit more complicated	8
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10	Cu T	÷	
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	Ķ.	7± F	
2			
	FC-C-L	6-10-0	

own and learn (if you already don't know) | to \$686 code, and energy it well. assembly language form a good promer.

principles for writing a mutation engine. (500 or 6800 families) you can use similar a different type of processor (such as the lá you program on a machino which uses

background for anything "furny" happenoperating systems which watch from the software as well as with, moreso maybe). and (joint units save risers them booths writien look for possible decryption engines, and able code to bouristic seamers which well focus is shifted from scanning for recognizcan injurize system security methods if the prevalence of rectation origines overrually One note about untiating utilities: the

and periodps with thatchings that can write caring and evolving/mutating "life feems"), at vertical engineery as populated by self-replasecretly and easy protectors schemes, withengine are not only useful for visus writing. programs or improve their even code. cial life simulations (such as ferra, in which beseever. They can be employed for data-The paraciples behind the material

The Listing

acticle started off with. coding, , then again, see the quotes that this (This is probably not the most efficient

> encryption routine again, it should have SMUT.COM. Examine the coding perties TidNK) Load the program using DEBUG mulated. (using EXIEBN or the A aption on Need and lankers then made into a COM file (using the ")g" continand) and examine the of the eneryption couline, run the progrem As it is now, the listing should be assem-

> > Parkey in

ŝ

10000

Desert appropriate code

52 44.1

adic ini

ionzačovi drugih) make stiževi neadable. makes it frek a bit cryptst. However, optithe matthon ergore a bd. The bd shifting debug them safely. You'll need to examine menting with menation engines. As you make medifications, you can lest and This program is a good shall for experi-

Hittanakes no sense, take not jour guide

- ; SMutuASM v2.4B * A Smoil Mutoblos-
- ; Engine Seme * by Tio Mate Jones

5 Size of program disdesize equi endofuode-pgatorital

the price of energy test confidence escreire eq: endofende stantafcace+1

Segment byte public 'rode' org 120m ossume oscillations, oscillations. sec mulant, esc mulant

guitals is well the source ander for a This is merely some demonstration encryption routine and a sample wirus. It only includes a sample code used for development....

given produced

: mutation engine.

Jao postort

EX Milbo

2600 Magazina

atost: 1: 10% rxit cail recrypt 100 E8: coll entrype coll mutote mov [sindffort 28-1], ox ; lest the encryption/ nov [sixoffeet /5+/], ax add ax. encretice add ax, offset startofcose NOV JX, SI 10700 a decryption equation. In it ; Test the mutches.... ; Aliems for melocotsole code!! ; decomption rostine s Plug values directly into Alogada and Alogada be run un infinite autien al works (it does), Stud can

(DCC)ypt: Computing stable is the energytical/decryption D (100 3 i have registers used push ox mov bx, offset property by

xortoop:

Styrrogicode

i It may look isofficient, but

; it's easy to nuteto P.3. P.4 25. 3 3 a Restary registers pap by SOO OX one by, office: accept, [bc] X4 21.1 nov [50], th x02 37, 8 jle zorlorp Christian (Chris

startafagge;

3

seb si, offset init

: Where on I? 100

; bord... This is the mutation : Other code to be encrypted begins a produce sixteen possible engine: (This demo will only



no late:

getrand:

TON ON, 36h 417 (3) ; Get a "readom" susber

a Coll DOS Gatiline recibio

) (R - operating register (M , R -, ; Energy-tion value 90. 94. CL, CH, Di en (14) OL = index register (SI on DI) and

; Change the Encryption Value odo [sixoffset (2+2); dl and dx. Grezh 97 getrond if zero, got a dem volun...

; Only need twi-0...7 and 01-2 97 ~

; Aurocealts of Sec. ; (emportante for indicurate Sim di, 1

or di, 6 ; Convert to marriage format

170% of , 48h 27 of Al

nov Exikatises Pag, ai auv di, wesh

mov [siapsfast Z2-1], al or di, th ; Mutote MGR

May the off E 850%

; convert to marrieron forest shi di, 2 shi shi, il

ond al, 1 nov al, da Sal day 1

or al, di 25 dly 4 ; odjušt format

πoν [si-offset 21+0], αὶ

; Ministr 909 now (shanifest 23:1), a) may [si-offset 20], of or st. Al or 41, 5 954 ct., 2081c.

mov al. 8F80

583 475,00k ³ now (stratified 79-1), at or al, di

一つの日の本の

according on ; Mutate PUSH, IND may us. Session

Testore IN

nov (si≖affset Fö], ax SIND Shi B on dx. dx

or ct. ch 507 (A. 5558)

mov (stapfiset PZ), ak or dr. of 3

; Put more enoughted and his on odno 7 TESTS. . . .

end (per

page 18ds; 75 "Sout v2.48"

1 K-97 1 sing hornis top forty sough off plant originate by Uniter process who naturation regime into a virus which shall spond all of elemnity in the he or see sprends that the wild May feel who Whoshly inserts this orthorworld being purneled with

CHICG-CODE: (0) yell gulast 1500 9000 end given

by Ruger Barrison

not more because ISBN is hotel, if you can something that was almost as lead as vaporthing that has been joked about. Its convince those or your level plante confiecommercials are similar to this idea. Laughto be delivered. The Alfelt "You Will" wave. It was premised but it never seemed evolved into ISDN-2 and ISBN-3. The rearect tenti: Integrated Services Digital zeronym has stood for it Still Does by that it really exists son behind the sarcton is because it is Notwork, it sources out as 1500N-1 and then Nothing, I Sure Duri't kNow, and the cor-This is few years ISBN has been sense-

changing your releptions lines. How, you the maximum data treasfer is about 30 klips. With ISDN you can reach 61-128 tog if with up to two other isslanticents. In I updated, therefore much of it is incorrect. to date right at the phone line and combinmay ask? It's done by cleanging your voice Abps for drag. This is all obsainable withour and date communications. On 1809's times ISBN is a riightal service for both voice

Overview

the central office they give you a new INDN they'll forget to reconnect the DNR in the line card for your photo line. (Maybe

obtained by using two of the B channels. callers. 128 Shps data transmission is band signaluss channel, this means that it's trail office. Since there is a suparate out of of-band signaling to the switch to the conalso can possibly voice. The Digharard a-16 normally the 64 kbps data channel, but it equivalent to three POTS lines as your provide 64 kbps data. The B2 channel is as an 8 bit noise channel, attiough it can house. The Bispards for "Bearer" and the D up its 18+D or 28+D configuration. It is you can do this many times to subsequent ID on the person who just called. In fact, ktys for X 25 packet dies and also for outfor "Delta". The Bill channel is psed muscily you have Call Waiting you can use Calter Basic rate ISDN (BRI) is normally set

still being connected to the internet on the them a virus on the other B channel while thirms on one B channel while sending you can be calleing on the phone with a Dicharana What does this mean to you? First of all:

mumber because the information isn't even bather with their 1-800-060918UN but if you're in NYNEX seritary, don't exect company may have information too. 18.X (201) 820-2262, e-mail ivdn@cc.bellhattine of Bellcon at 1-800-992-18DN you can get. Obtain the guide by calling 1considere. URL http://mfo.bellcore.com-Reach them at 1-800-521-CORE, Your \$00-433-6600 | Belliuner's Catalog of ISDN by enaceating the National ISDN Technical Information also has decements. The AT&T documentation guide has rate You can gain more influentation on

Authorn 1995

77 DIME # DECODER

503-687-2618 Eugene OR 97402 Review by Blue Whale 310 Garfield Street Suite 4 FO Box 2748 Mirifron Electronics MoTion [M-16a+ touch Jone Decader

sond you a TM-16a Pitts, with no questions asked, if you know what I mean OptoBlechunics, For S249, MoTron will pertable teach tene decoder, forget about If you're in the market for a small,

bieneral description . . .

paid mess to have solid metal buttons). (this is unfortunate, as I would have gladly the cost low and the circuit board simple band are of the cheapest plastic variety and feels solid. The burrens, on the other mately 61 by 3.751 by 11, about the size of available, and were peobably used to keep an ARSON warrant. The chassis as metal The Toner-Master measures approars

There is a fix (elicip) red LED to indicate installed the battery does seem to less. be unscrewed and opened although once Sadily, to install the battery, the chassis must former "heick" is sold separately for \$10¢. dantery or from its 12 VDX traut (the trubs-Power is supplied from eather a 9 volt

your tones, and then love your mind. men to ecosionally hit this button, lose the hand belief is, so that it is not progreted being raconsentently placed where all "scroll" buttous and a clear buttout the lat-Besides the power switch, these are two

nector for computer interfacing. unicialso came with an RS-232 female con-As I purchased the "Pilis" vession, my

bolding it to the circuit board. gently as its solder joints are the early thing adjust, the poserformeter must be bandled extremely useful arkition, it is unfortunate in speaker. While this speaker is an nearly inegatored on the unit's small apills. for LCD (not bracklit), and may be storable the chassis. Besides being difficult to that the output volume is coptrolled by a which is processed through a small hole in variable potentions terror the operat board

clost, sed must senetimes be held stoocksensitive and should be kept out of direct sunlight and away from heat astruction magnet warrs that the LCD is ward angles in order to view the characters tration might suggests. In addition, the (Elthough it is not quite so had as the allow The deplay itself is not particularly

Switching on the unit yields. "Te-18a-

What happens next depends on you

As a DIMIT decoder ...

detail that makes the centificable a wordswhile backers. It is this persentility and attention to all the various sources that are of thisses to comes with a readclar telephone line-in especially useful however, is that it also tones are. What cookes the Tone-Master ilizes this same type of jack for audio ourjack. Thus reach fotos may be called from the decoder to whatever the source of your paid there should be no partition embledding players, and just about everything else utihand hald radios, ecanners, tapo cassarte and phone pack for its surfactingful As all The Tene-Masser has a searched eighth-

Teach tones are viewed on a 16 change in for off-hook and a ">" for on-book deloctones appear as the characters they are. For phone operation, the decorder displays a "k Accust operation is simple. All reach

> indianes tones, while a "Pill indicates priso all the beach dones, and then hanging up tion Thus, litting a phone receiver, hitting will yield: "41:123456783*@av*. The "F"

looked tike this: "47:025456-T_7801845" rendway while disting our touch rance, the afforementioned exemple unight have on-hook detections. Thus if we had paused seven second pause between touch tenes or The decoder uses a "-" to indicate a

Jack opinors for sensors fistering. I recommend galang the coston actio out while you are logging touch times, although speaker allows you to certifule monitoring For scanner operation, the built-in

be accessed via the scroll burbons ters in its very velatile memory, which may The decoder can store up to 80 charac-

As a PEN register ...

tion, the tert is no longer restricted by its as a PEN register. With a computer connecsoftwice will allow the decoder to function computer authoring the simplest deficited RS-232 connection (9900 band) to any Master increases exponentially. A simple This is whose the value of the Rene-

> binded 80 character memory, but by the by Mailton (for MS-DOS machines). memory of the compace. With a simple ten-FURS are recomporated in software provided veguences are detected. Both of these that minal series, you can easily add time and east functions, on have your computer sound an alarm when corrain touch long-

As a telephone maniforing device \ldots

when you want to make the speaker without basing to deal with the potentiometer colengaged, which is another usoful feature perput suck is engaged. The speaker is this singlifier, at a seconding device. When the reput back out again to beautificates, an audio out jeak so that you can gape your fibr an extra \$20. MoTion will add an

Conclusion ...

CONTRACT. Quite simply. there is restring like it on the still manages to be small and pesielse. morney. It is a solid and very file decide that memory, the Tone-Master is well would the bestery installation and Jimicad 80 Gastacter Despite the cheap buttons, inconvenient



HACKING A POLICE INTERROGATION

by Darlo Okasi

I was smark by what was said by the ATM Bandicia the Spring 1995 issue about being interrogated by the Secret Service - denined fictor anything." This is always good advice but what few people understand is how well trained any police force is in interrogation. Knowledge is power and orac you know how a police interrogation works you can be better proposal for it should a over happen respect.

Aside from the getting caught, the first thing you can the is have a story and stick with it. Plan it out reproduced of him just in east. It's always a good files first you insist on your lawyer being present so you may not have to cell your story.

Note: In most stifes you can only be held without being charged for 24 hours. It can meet a long session but frink of it as a vertice germa if you wait, you win.

The intest important mater Ask for a leavyor? The Supreme Court coled that manely asking, "Should I have an attentionary?" is not enough. You have to say, "I want a lawyer? In order for the questioning to stop, but are say this again. You eleasty and suprotional most request an enumery Conce you do supplying beyond that point, it is admissible as evidence.

When howight into an interrogation more, note the fundating. Most likely these will be just a few chairs and a very low sofa. You'll note that if you sit on the sofa, it is so low you can't get up without a great deal of allow. This is to put them man a position of power ever you. You can take control by not sitting at first. They will ask you to sit, Ask "Where do you want me to sit?" When they tell you at eigenbowy else, "It is well make them, much up half and flag will show it. Out it less them know that you are in central of the interview.

Once in an interregation room, invisition a lawyer. They will say, "We're not charging you with anything, so you don't need a breyer. We just want some information."

My finance responds to this is to tall their than you know just how dirty (your city) cops are and that you can't cust cops who be and are "morfle take". You eagh, at some point, let them know your expect them to best you up because "you've bested up friends of mide." This well do non-things. I) you them on the refrentive and 2) eleteral them, momentally, from why they had brought you then. If they take this four that's make up any stones about "bad pops". But rectain silent and repeat your elain.

If you continue to insist on a lawyer, they will threaten to arrest you. It's best to be under across with a lawyer than to spill your guts in a police interrugation, *basis* on a basyon to matter when,

You will seldon, if ever, be interrugated by just one copy. One will my re-make the whole thank seem very casual and wall "base want to get the facts straight." The other will be silent and meody: Ever their nit "Good Cop Bad Cop"? If this is the play they take, you aim keep commot of the interrugation by letting Good Cop know than its neapensible for what Bad Cop doos.

A common technique is that they will say you are not in troubly but that they just want some information. They will want to be your friends. Tell design methods.

Eiling this, they will threaten you with a larger amount of hogus charges they say can be traced directly to you. It is all built-shir. If they had that kind of oridence they would have charged you already. They will go so far as to show you evidence, printous shoots, photos, or statements from others. We shoot approach they can examine if because is

is all made up! If they do this recognon those outphile examining every bit of evidence they show and riven refuge it! A good example they will show you a plotte of yourself pertago out of your our and obtain it shows you commeding (whatever crime). You apply would be. "That shows are returning from the laundownar. That's all and you know it! "You're as they a bunch of cops as everyone says!"

This can get more complicated if is involves more people than just yourself. Be contain that if the cops suspect you and your friendish they will brings you aif in and separate you. They will give you to three to oreate a usable story or rehearse it with your accomplices way ahead of time and make certain everyous knows what can happen in a pathor interrogation.

If you have done everything connectly you will find yourself sating silently for a long time. They will walk in and call you that your friends have just implicated you in a crime in order to get a Sector deal from the DA. Assurcing your friends have done their job, this will be bullshit too!

In easter to further threaten year, they might being in a "signed confession" from your friends. Note that they wen't let you read it because all they did was ask your friends to sign a sheet of paper with a bunch of rivial information on it like rame, address, last employment, etc. Your responses her there know it's builtant and that it's just further evidence that they are

or their "drifty cops". A fillend of mine some or they responded to this play by saying, "The year oright - that oil that work; says is that he k promised off gets to not fack your wife more than twice a was you week!" The interrogating officer was not usply amused.

g from Sentence once told me then to and his from it friends would use a "code word" that would not the control of the control of the code word.

Sentence once told me ther its and his friends would use a "vede word" that would be used if they broke under the interrogation. The cops would then relay this to his accomplices as a sign that their irrend did indeed centers. The only first you should "break" is if your life is being threatened by the police. This is rare but not indeed by the police. This is rare but not indeed by the police. This is rare but not indeed by the police. They life a historic fant illegall threat that police have used is no take all the butlets out of their gut and show them to you. They put one bulks to the chamber and start playing Russian readette with year. Rust assured there is no real bullet to the chamber. They parend the read bullet to the chamber.

Once sleey have figured out that you won't cell from anything they will entire let you go or arrest you. If they arrest you they will be you saik to your lawyer, diveyor saik to your lawyer, diveyor saik to your lawyer.

These are plenty none strategies they will use, but this will give you an idea of what police are wilting to do in order to squeezo information our of you.

Keep in mind, a police interrugation is like a game and they are counting on you to not know that. Once you know it's a game, and you know how how to play, backing it can be easy.



Autumn 1995

(continued from page 27)

map (marks which fields are present in (beforead to as ANI), and "50H493099" is "6158909200" is the prigraktor member (PIN number will follow for calling cards) query), "\$167\$12800" is the billing number data portion). "\$000" is the data field bit (HHMANSS), "it" is the message segurator the time of query in 24 hour format date of query (YYMMDD), "215400" is metas no data to fallow), 1951/8271 is the cates (a "1" means data is to fellow, "0" number of the query). "I" is the data indiis the message sequence mander the serial the destination (salled) number. (suparates racksage poreton of query franc Reply a 1911 is the transaction type (90 m is the recessage type (0200 - Query, 0220 which fields are prosent in query), "SNE-Party Billing, $66 = \text{Crodit Card}_{11}$ "123456" Calling Card, 01 + Collegt Call, 02 + Third-TGSGR" is the Schangeer User ID: 302087

Example 3: Sample Transactions

73211400;:920051075126005936 Query: (12)*+34941115+5202800327345018525

2次は金銭11: Reply: OQFE48SMTU5E3Z2120G1Z345669505

23213483;;880851675126686178789786784 QUETY: UC)FH885HTUSTR22828212245613565

23213462858::800051475125806178989220 Repty: UKF5485WitS5862126117345659585

ber is 4617) 896-920%, the remainer being I Table Ba Scaple Reply Codes transaction is a request for a third-party col-Denied - Involvd PINT. The second sample \$1675126000999. The reply code was "211: tion request for calling each member for call varification. The originating ourse The first sample transaction is a valida-

billed party before Approved - Veri 28/fed to (504):440 decade the reply Required", Till I white code a colling to the field DISSENT RICHARD Approved Third Another possib

query/esply. that field will be inalgoed in the Translation a binary 1" means Marke An Header Tieff Din War

Montage Headen

216 215 (N) 44

Derived third Party (oil)

Deried - Public Coin Phone

25 J 8

Denied - lovalid SIN Genied - Invalid Calling Cord verify thing-porty call Conditionally Appropried Ventify Collect Call

Denied Collect Call

dr.	(D)	
	21 0 0 0	

Fransaction Type Hassage Tape

0741 FD

Osta Indicator Message Sequence Musses

2018 OS 二! 花

Vessage Hady

F. 614

werehord ID subfortzetten Code Perimary Rab Work myork locationating Number Cristinuting Space Authorization Amoust Explosition date Account Munber

(Bits read 1-16 from left to right)

chields as an exercise.	we in up to the reader to	nty Call - No Venification	raply would be 1005:	the call will be pieced.	ast be verified with the	Third-Party Call" which	"OSI: Conditionally	aris (\$15) 751-2500, The	1.	95 Q:	ed to is (\$16) 751-2500. The was "0.51: Conditionally ify Third-Party Call" which must be verified with the face the call will be placed by reply would be "005". Surty Call - No Astification leave in up to the reader to childs as an exercise.
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Cond

Asproved Conversial Condit No Ventitication Required Approved Third-Party Call Verification Required Approved Collect Call - No Approved California Condi

Conditionally Approved -

8 402 0000 Dentical Desired - Involve Commercial Comind - Confiscole Credit Cradit Cord (red) (and Expered

calling carel collect, and third-party calls). series are commercial credit care denials. Codes in the 300 series are demark based on givery (massing field, had format, etc.) greater than 100 is a denial code. Codes in approval code, and anything equal to or fixed control screening. Codes in the 400 Billed Namber Spreenings or BNS (i.e., Codes in the 200 series are denials for the 100 series mean their was erour to the Any onde less than 100 is generally an

The Bells Fight Back

included by the strain partition of soil ta disgust or the live operator comes on the ective as the psychone simply seems to other fearness. Red boses are randered instieven the place. These phones are similar to Odmanding mestey and it either you hang up gent. They can be dialed up and poiled like CCCOTs in that they are somewhat intelli-Effect the external tones and keeps at CONTON for remote maintenance and box resistant seems to be perpusy up all A new breed of payphone which is red

or give at up. I hope to present more informusion regarding these new payphones in a future arricle of this serior.

COCOT Supring Tips

calling and surchanges to the total charge. who will are subtletly tack on rich autously high rates) as opposed to the COCOT operator your card a balled by the Bell (with its norms) biarder to piece the call for you. This way, diain's no get a local Beil operator and ask To avoid excessive calling card charges

Miscelland

cally be able to reorganize CXXYXI's withtnumbers). Local operators will automatiwhich do not seturn a "wink" (such as 800) lattered specifically for CXXOTs in that ray COPT lines as just that. most importantly, will never return an oursstricted dialtone by way of dialing numbers they have inherent number blocking and, lines to psyphone operators. Those lines are Most RBOCs now offer special COPT

Hibere Do I Go From Here?

Until then, hack and be mony? COCCII and hope to present even more polymostise articles in deture assect of 2686. any assemble into the mystorious ways of the things, in the answerters. I'll be continuing "6" keys You may find some interesting digits on the keypad storting with the "F" is what you hear on the line. Particle in standard a few different types of calls and observe the CO had rend change a butt-set on it. Make on the COCOT itself. Try to gain access to operation. Also, try a fittle experienceation will post their address right on the phone things they are thousing out. Most operators operator to see what kind of inveresting tions to your local neighborhood COCOT I would suggest trashing a local COCOT citating devices. If you'd like to feare more, thus is readily appearent. They are postly feaisself, so that's a good place to find direc-New you know there is more to CCX IOTS

Artama 1995

Anthony 1995

Wim arketplace.

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assembly necessary, S28 US and 55 shipping & America Company, Suite 300, 156 Sherwood and handling, DIGITAL RECORDING KEYing watch, and model This video will save you Plane, Englished NJ 07623, (2011)871-9172. hardling. Send abook or money order on liast second capacity, Includes 4 wearth patteries. No and living small. Has in packed for eagly acressed 20 CHAIN Second and plays ANY fore yes, person you'll ever tooke! Only \$29 US. SS for shipping chousands of dollars every year. Best investment Granded as well: Huffmark cards, digital papers: detailed view of process. Other and boxing devices theasy. Magnification of circuit board gives a great obtain free calls from payphones. This vides makes Shapk tone dialer (model 40 -145) into a red hox to step by step teamuction on hear to coored a Madro "Foods Builds Rod 多点,在交通 ma Conglide FREE PHONE CAULS FOR LIFE! You will a

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Autum 1998



hy Bisect Skull Cas

Hore's some additional information on issee, was a good introduction on how to back Windows 3.x that may prove useful. Windows done machines in comparer screen "Breaking Windows" in the Aurumn 1964

sophing the server sever code (Solislav is above ASCII 125, are filtered. The algorithm process, any diagat obgracters, such as those A SCH value, password length, obsessor posilest is convented to uppercase then goes plaintext. (The utility is called SSThiof, and passwood from the JNI file and section it to was relatively ensure piece together by disustion, and the magic number 42). During this through two stages of XORing thesed on second in the CONTROLLENT life, The plainsimple XOR scheme to encrypt the password when you can just ober the LINI file as you creat this.) Why go to all of this rouble. should be figuring around the Net by the time very nice). It was fairly trivial to write a quick protection. The Windows somen street uses a Carnelback Joggler describes? Visual Residuality to preb the energeted First let's ralk about server søder password

using passwords. They'll use a single guascharactric will give you access to a lot more place the password is stored lits! (backing a security, always go through the back door. secure and interesting places (either locally on icr chan dealing with one encrypted with word for everything. So attack the weeklet Pagale are extremely lazy when is comes to the machine or out on a network). DES). Once you've got it, there's a good passwood our of the servou saver is much eus Simple. When it cooks to any form of

secess version of Windows (this could be on a récino machine in a compider séese of the la d New back to becaking tallo a limited

going to be removed from any Program DOS, and any other useful utilities are likely Menager groups. It's seach looking though. Semeone who knows what they're doing it First of all, idons for the File Manager,

opported) is then going to disable CTRL: the served saver (or Windows). This is done in ATT+DFLETE so you can't easily built out of know it's hand but never underestimate your CTRL-ALTIDELESS away the SYSTEMANN (its with the Local with any editor, reboot, and you can Robot- Chiexning, Change the editing to Off

the i from any option based under [restric-MANINI will also likely be used so you can't Bons] and achaec. existic DOS, remappleations, can last recrease The [restrictions] options in the PADG-

you, this could be difficult to change on the essy). Calest you've get a BIOS utility with drive and ner from a dappy tyreforably your machine will be set to only best from the beed II seminate is very smart, the RIOS of fac-

process. His the CONFIG file you might also engageer skell-windom instead of convthe HS or FS key and step through the start up the CONFIGISYS filts to you can't haid cown A final trick is to put a switchest in land at

posky backers, nghi! Wrong, you watch'r paying attention. Remember, go through the holes are exploited through applications. patens, Windows operating system security back door, but like with big, governing output So, the machine is now safe from those

standard (X)SPRMPTSIF file and latinches whatever acts of mischief you'd like. (Den't editor (4.3 always handy to have one with your smacrolike AppActivate "DOSPRAPT PIF" systems are so handy these days.) keery bow to write a macra? Gee, on-line help on disk) and change ANI files or perform DOS. Once you're out of Windows, the up as Just go iero Ward for whatevery and write a these days have their own casers language. sefficing on it. Guess what? Most eppheatiers Exect, or some other business/productivity When you can the macro, it exceutes the le's lekely the machine well have Wants

Happy lecking.

Review by Emmanuel Goldstein Columbia Pictures Starring: Sandra Butlock, Jerenny Northam, Dennis Miller

unificate that the Aerwill even come tate. intensive dose of stupedity in the land in a very as the year Hollywood discovered the interior. life will not imitate ust. Burning an even near And now mere than ever, we need to pray that The summer of 1905 will be remeabored

rim, incredible stapicity on the part of the viband especially at the end we see the standard wentle have no difficulty proking apain. ple who have never seen a computer below bring and technological depresents that peochases, inerestible tack on the percent the var-Rellywood clickes coming into play - par with a growing sense of segrething about to film. In fact, the first part is nearly the loss. way of the plot unlidding. Towards the models happen and an coprodictable yet plausible This is new to say that it's necessarily a had

and the deeme get to think about it anymore the point where you'll experience frustyllion more those little tiny things will bother year, to Hewever, the more you think about it, the experience - a good sign for any action flick if you had just been through an exhabitating This is all very named. You'll feel a rush after seeing The Net as

the bas for this part). Nobedy surfaces. nize Angela (played convincingly by Sandra be someone ever on the planet who will recepmeets an untimely end. But surely there must augothing), and her ext-S O (Dennis Miller) a good person to poly on for verification of Angels Betaelt's prother has Alzheimer's Incl. tent. So where the bull as everybody? True. will also of the Workers and acardy as domingoboon touched or removed in some way. The of Thursta Veil's friends and relatives have tify them. At least on CPN's Wyokee Africa 410 bass a single person anywhere who can teen son to lead a sopressint normal life and nor Bullock, who really shouldn't have groten off Yaxi'll wonder how it's possible for a per-

> down of the plot cannot go unransessed. mend on it. We can forgive the systemical insercidentally happens to have the evil masteragent and crashes it into another our that coinwheel of a car deven by a fake (and exil) FBF the piriful scene where Bullock series the sy in this case because over yone has blind forth exist either yet no doubt is used on her identifidentify her as Buth Mars, the person the strill Conversely, where are all the people who can curacion but the unbelievability and idunibilis in the Compact Biomericaplification As is Pasetorizas ágyo tornes her into? They don's

modern vetting for a settle. to go outside and leave the competers and required superior entirely through the virtual order pizzas, cooduct our social fixes, and get our heads. Yes, it's not a good focal to live our stup to steen being homograd repeatedly imp world. We need to remain homes. We've got fives arrively through computers, where we The point is made only but that doesn't

having one used against you can be deadly. identity in the real world and nebody will uses conspiners frequently a they lose their ment Look at what inappers to secureace who hanne that can be come with such an instru got near one of these mansters as any time in will do alter accing this film is now never to know alto they really are fising one is had and the propolegists feture. After eth look at all the What the average completely victory

ups? Is there a defense? say sites they want it to? And facts any back ages to gen registed of the system and make it hundred times easier to accomplish is no real the complete itself but pather the completed son to got look upon it with a healthy does of Just decrease technology makes semerting a supplicitly that governous to lectarological with skepricism. After all, what if somebody toon that the rest energy in The Arc was never

table to the plot, however, you'll have to dig paget deeper pion. Involtar as a mossage which actually permassage. We do need a national loads cane The Net does manage to send a very clear

Audurna 1995

"Baby ... you're Elite"

Hockers
United Artists
Starring: Johny Lee Miller,
Angeling Jolic, and Fisher Stevens
Review by Three Johen

If you're wasting for me to cip this film to sheds and then being it, you can just turn the passe because much not going to happen. entirely.

There are going to be obvious scorings provided from and The Yor, both receives of subject matter and the Yor, both receives of subject matter and because of the release facts. I would have for any that there was the Normal and falls water for much more accurate undit pertrays back crosting prietly positive fight However et aliff reads some work.

the problem with making it film about a subculture is that everyone in that outrure will find domains than at phinas, it is continued will find domains than in it such as the overbearing exception at these are mass unacconacted to the film as a piece of operational.

smiles at Just the right house like lack from the makes me think that he's seen too many performance. They did really well govern and should here the the this work The Flague 18 book hamoures opcome Fasher, Stevens (yes, the) Indian guy, face Libray (April Burgit and strikingly beautiful or high Angelina, Jolid is great as Kars Automosti accour also heaghters for opinion to a United action and presses which a flavolose Short (Geroit) as the appendixt hacken the beale-deminated world of backers." in the role of the antibox, trying to fit in ac Creation control with a kinds tool that Miller play Date (and the test of the what they led to work with long to Tone Crusso movies with the way that he THIS COIL WE SHOULD DEVEN THE POLICY

like a wig, though, and he rides an old school Powelli Perelin Mike McGill in the firm (fine 16th in the firm (fine 16th in Mel Brooks remake of Bureaks).

Service of the servic especially billed, whose characters real The Local College die to his promptionic Charles Tolling Street Care, Laurence March Lillard & Cooks Killer when you need for was on purpose and the resonablance as 大のは、多な、のはないで、はない、これであるのでは、大きな Marion All of the supporting accompanies ne the rule of the Pague's guittend Statement Statem Mountained Therase, they self-desclayed The Romance, and Ronoly Santiago as diamony, who was also in The Carlot and macker university of actionally. Mattheway The rest of the supporting and is played by Justic Bradford aid the role of Josephia. Ingbloom. Wing of WENEX. Last but not want is

From the beginning, the filter spin is some great. What impealists, assumpter graphics growided by Research Arts. The Marke of Americal American Picture Company, and Digital, The Moring Picture Company, and Objects. The Moring Picture Company, and Objects. The spin shorting picture of the Chicon Super Compact lock filter an aid for farel bands though. There is an a video grant content that was provided by SONY the year content was planton and tolerowed among thing they were better you so much

New for the pressand core. The Obace organized and the plot meres along stearing up and the plot meres along stearing up and the arding. My see the studing. If any of you are plot up a warrant expected to a female flacker) by saving "Babic you're little." If I give you my first-bond the matter in a week stake it alreads blow the whole more if the the Almost Other than the ending I surjoyed the film, atherwise

there were times that I was faceed to lough at it rather that baving it making me laugh. For one, the way that the word "elite" was tossed around only gives to show that the word has now come to mean multiply except to ancies kids on IRC.

The way that firmanuch's name was used was contical but will be only to backers, or to anyone who catches thy 1984 reference in the litter. The use of a red box in this film was great since they shrowed it being used as well as instructing diewers on how to make a simple one. (In an apparent concession to phone companies, however, real ned tax terms are not used.) It would have been with if Radio Shield had a little product placement but thankfully they didn't flowever. Apple Computers has product placement all throughout the motive (just like in The Net), itseluding the sce-through

the light fex enex. The only character in the film that diams backers at all was Agent Richard Cill from the Secont Service and he not only gots his throughout the film as the subject of a backing duel between Data and Service Service finds out they arrested the wrong people.

Most of the terminology was accurate or close to it oven if the graphics and operating systems waster's. The word "cyhenspace" wasn't used once.

The musical scare is pretty coul technochouse ableit commercialized Urban nothouse ableit commercialized Urban Danco Squad has a scene where they play live. The scenarios are cool, kind of a clubosque sport liker blend, and the hashest accurately a cross-section of people and not one-sided faultywood queens.

The pilot analyse along rether seels and is





laptop that The Plague gives to Datle, as does Coca-Cola (including one really long shot of Datle in the kitchen of his apartment at the table with a two fitter bonds it center frame). Assile from these I didn't see any other blanut preduct placing.

The makers of this tifm did a good job of not playing up the recent enlargement of the public's interest in the sport of rollerbading. After I saw the trailer I was seen that all this film was going to be was Rollers are Blades but it was never emphasized fit any ways they just used them as a means to precess their mobility during the crockers and the Nectet Nervice.

While Hackers was not made for the backer community in particular, it does some some points with me for several rensons. The backers were postrayed in a posi-

good up until the athremenrioned ending. United Artists did a good job of furning Raffal Moreu's story into a workable script with the exception of a few cheesy lines. The subject matter is also topical given the roseou surests of Bernie S, and Kevia Mitrick, for what nest people consider to be trimes that were blown way out of proportion. The Secret Service is portrayed exceptably too, from what several of my tricints who prove been raided rell me.

To make a long story short, The Pingore gets cheed, they gets girl, backer still does not get handle, everyone is acquitted, and the world is safer for democracy.

So, is in worth your 58% I think so, especially given the alternative chaines. Hackers will probably raise a lot of consciousness as to what we do so, as always, worth your ass.

Autumn 1995

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